

Flaviv et al. 1573

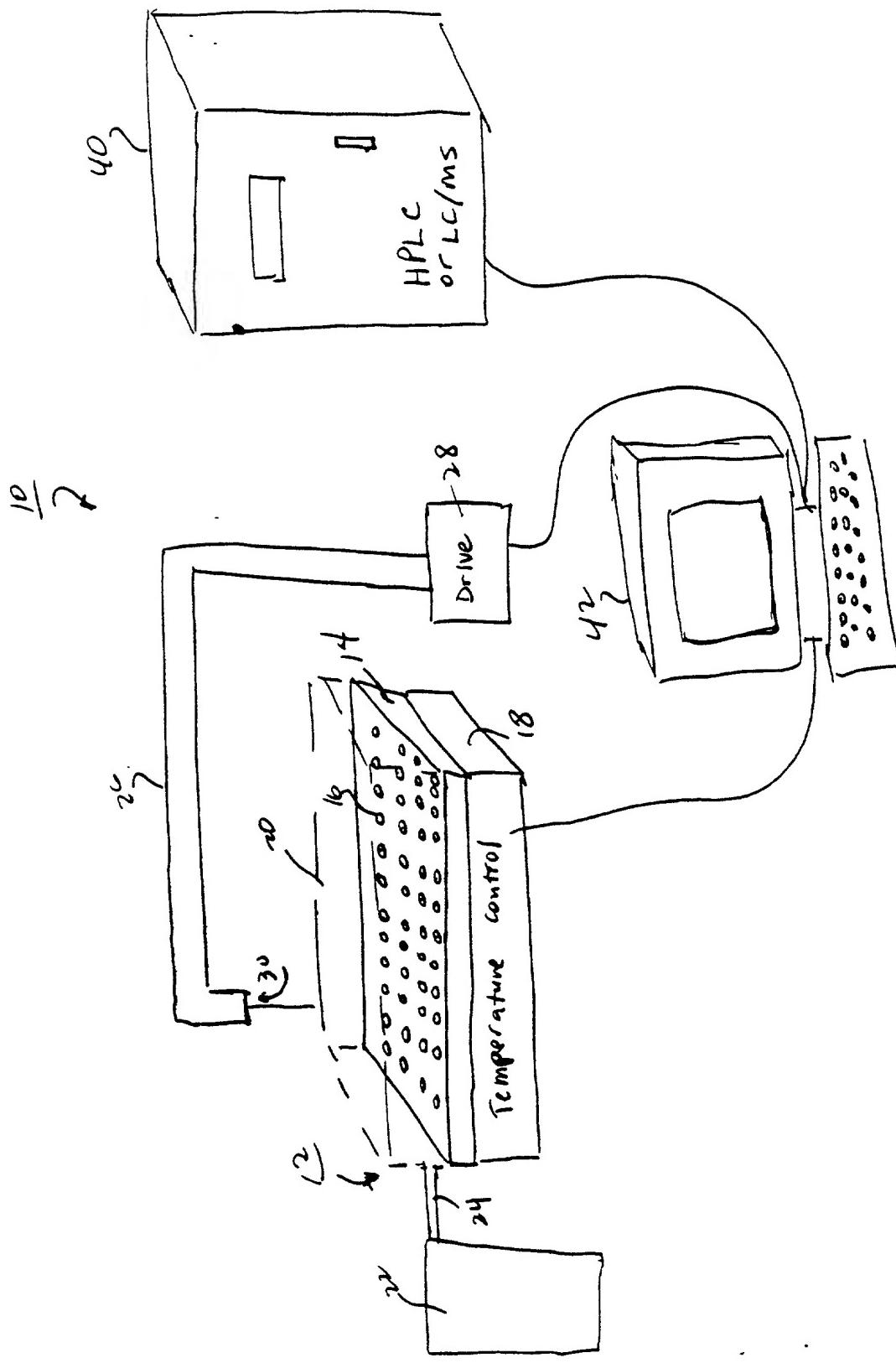


FIG. 1

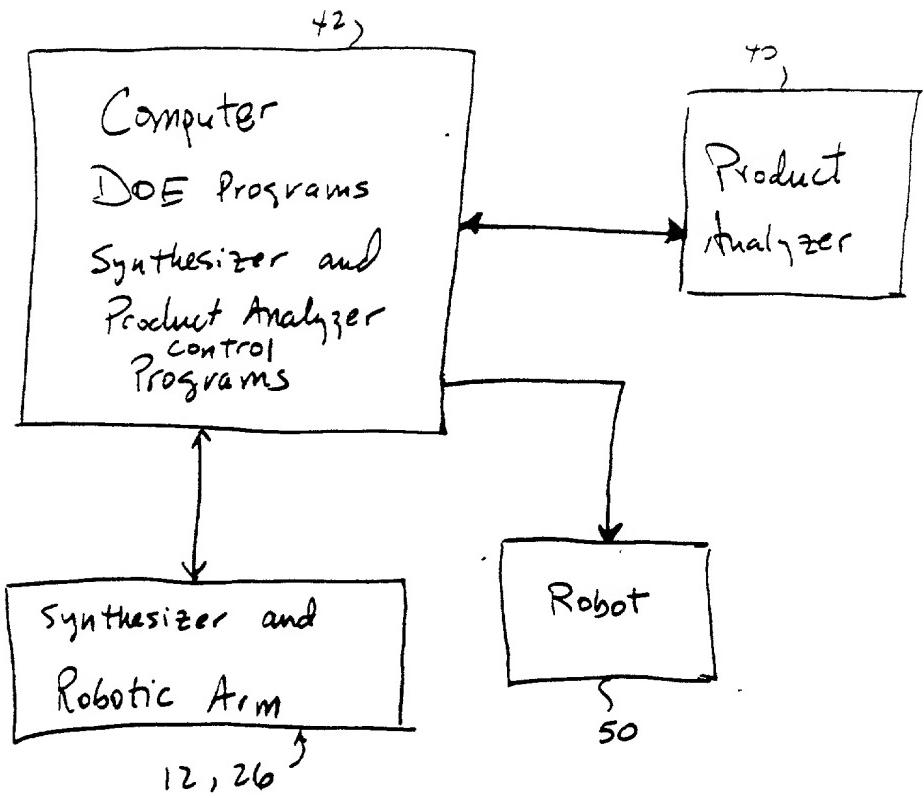


FIG. 2

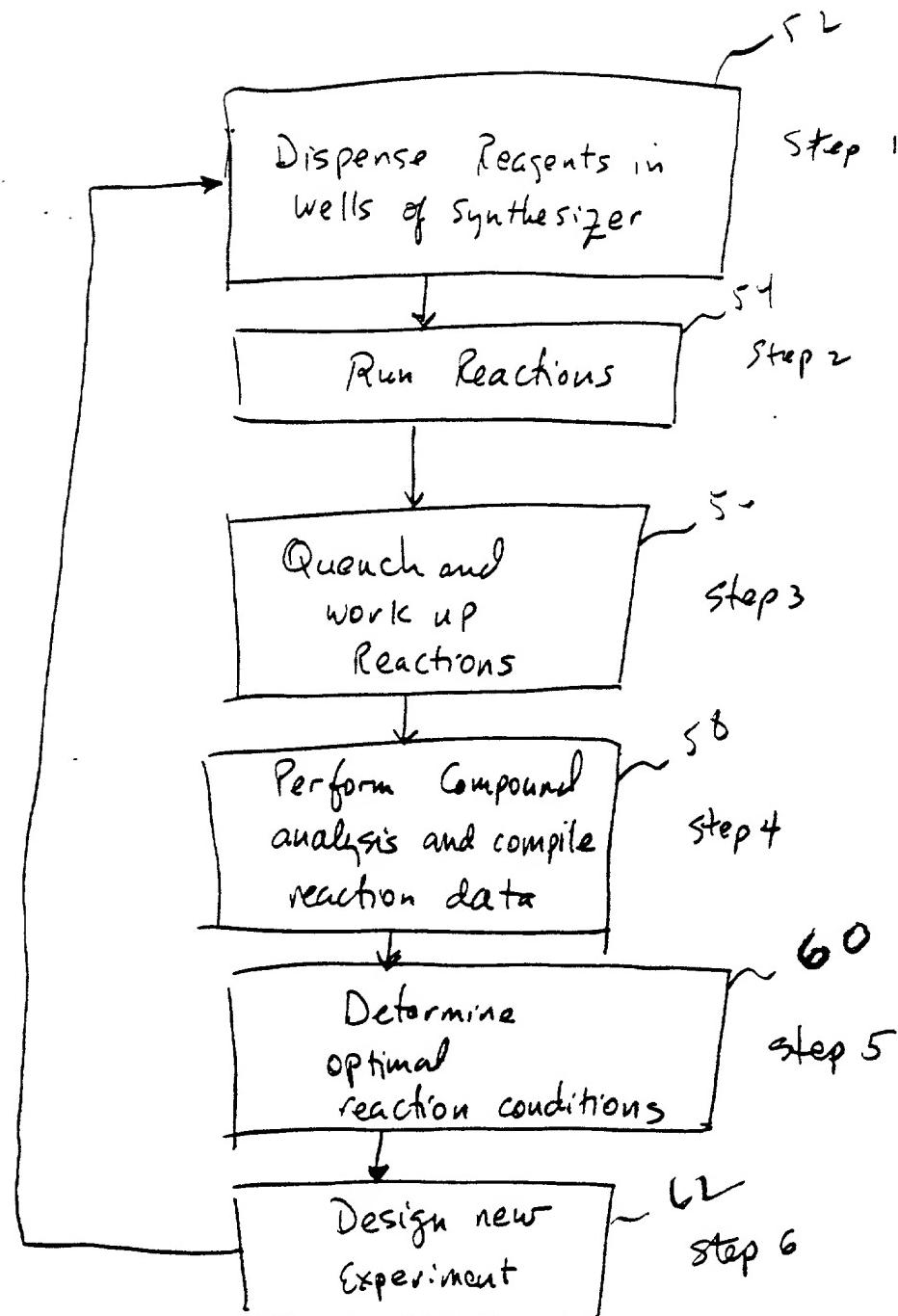


FIG. 3

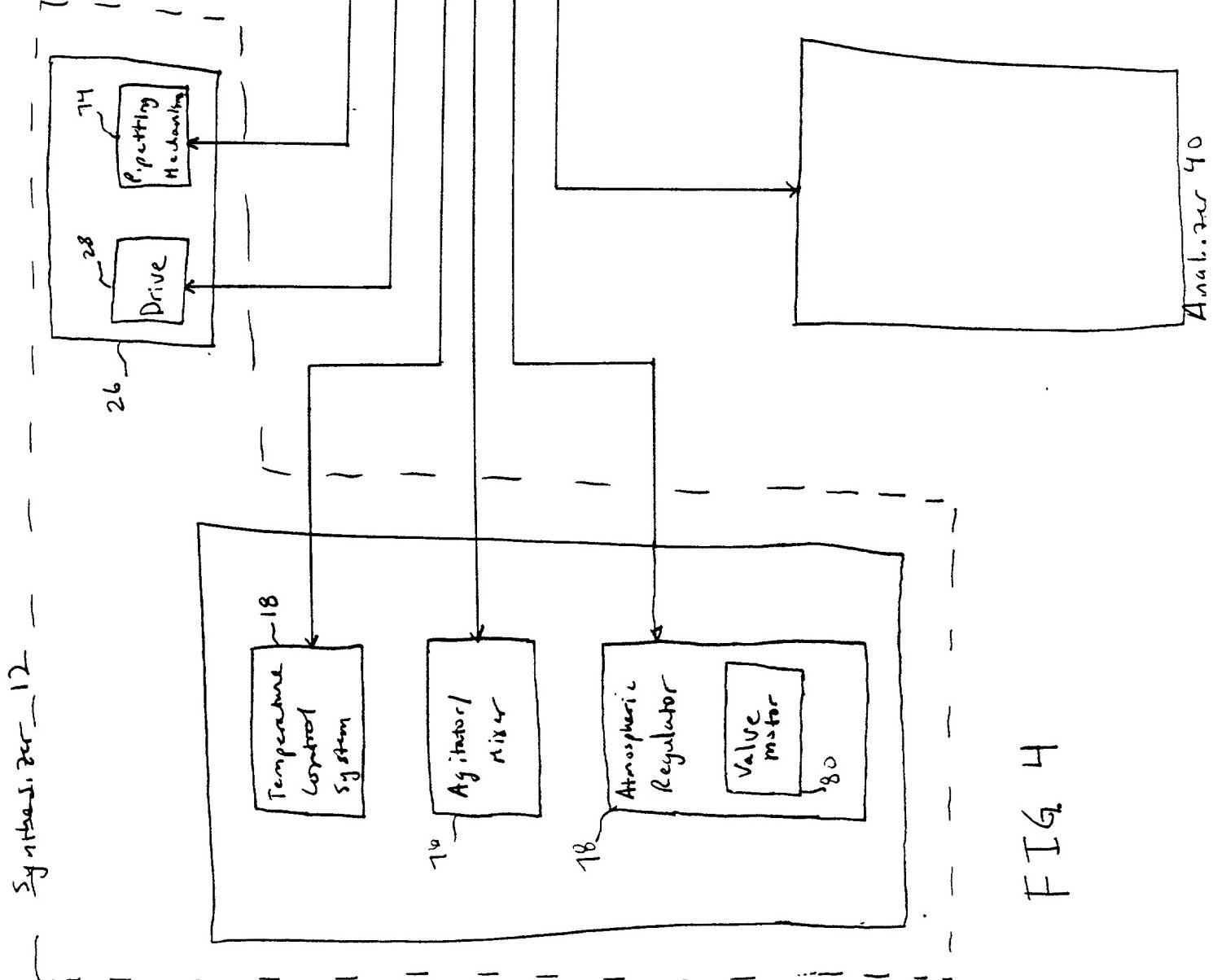
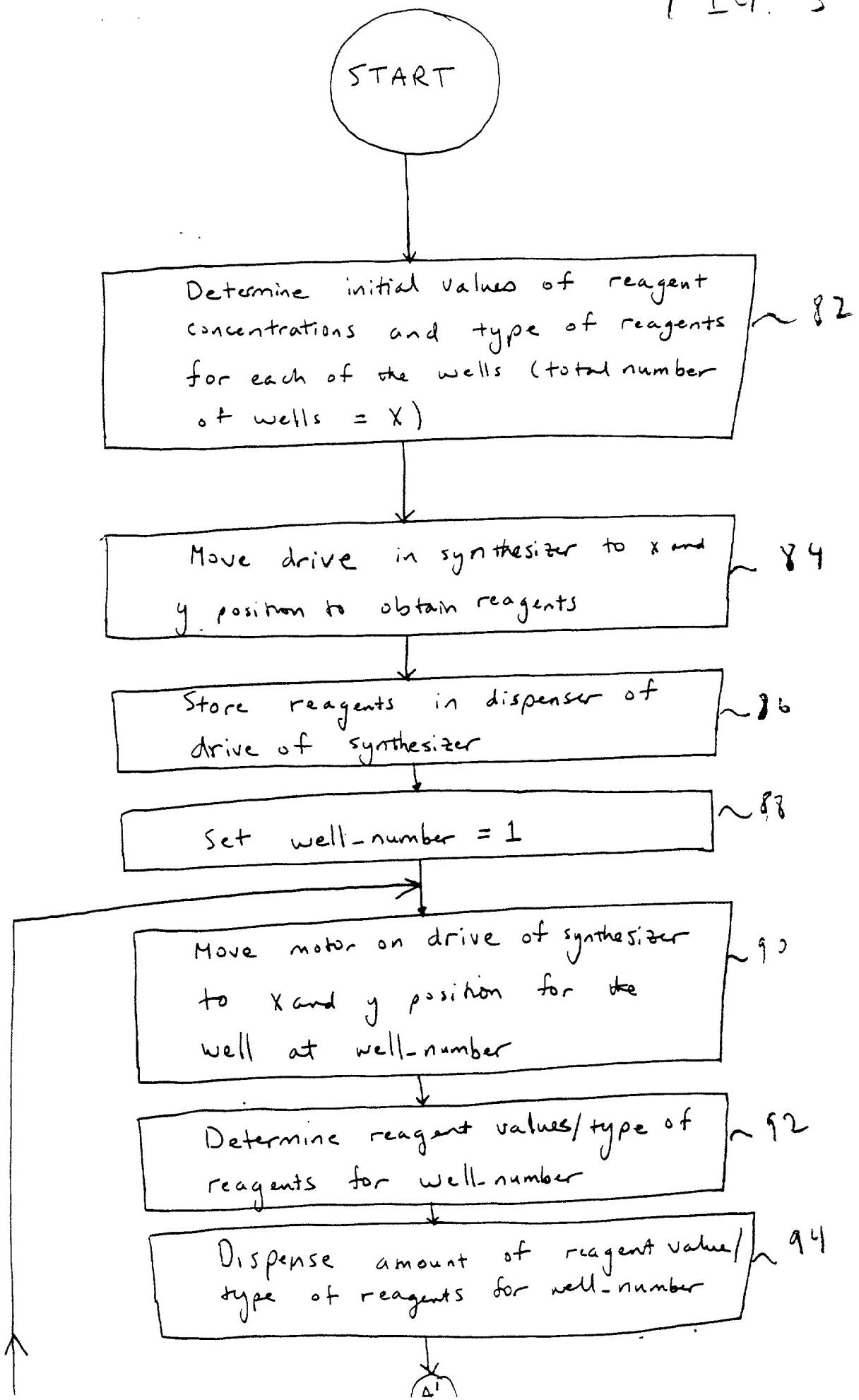
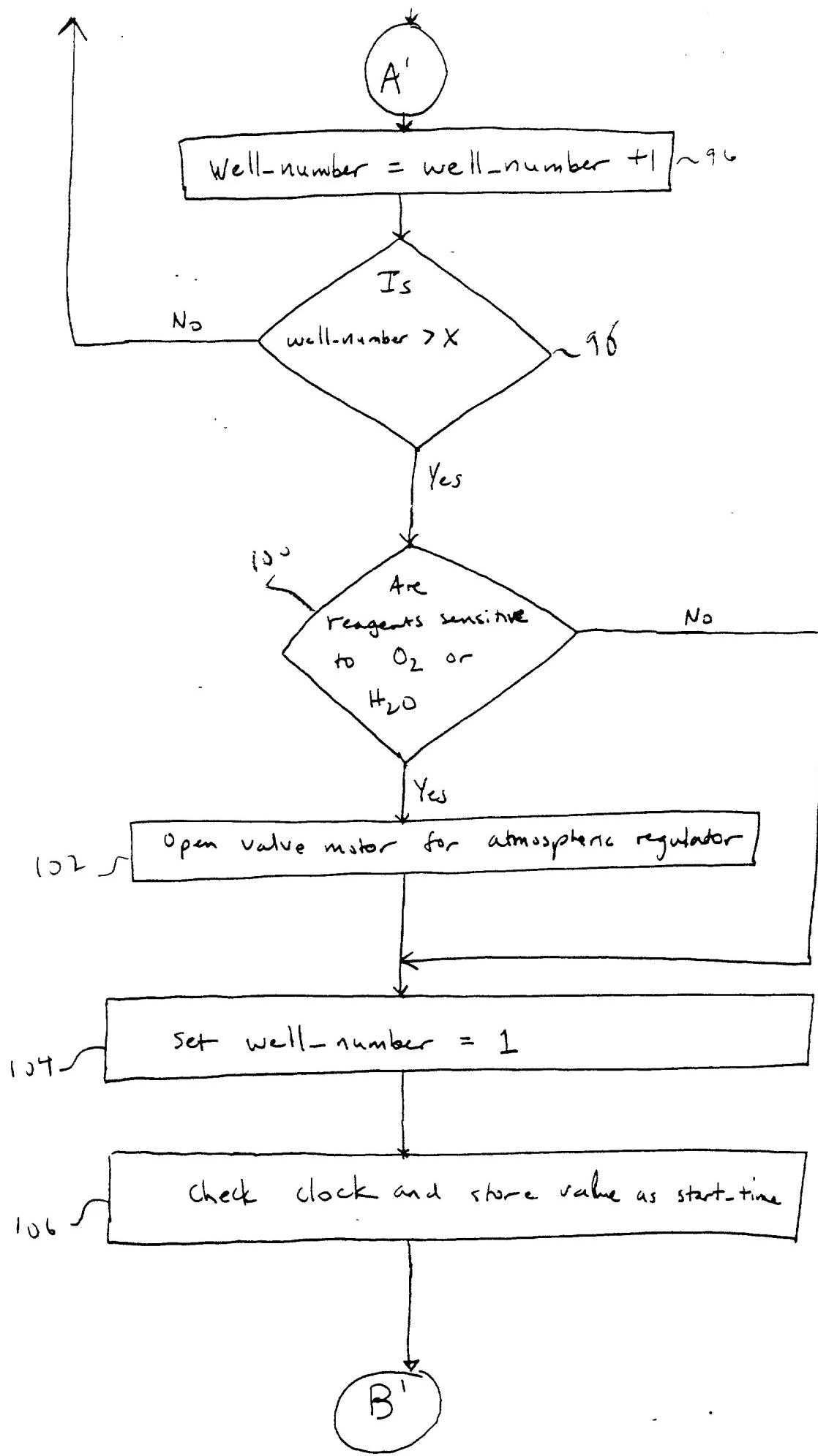
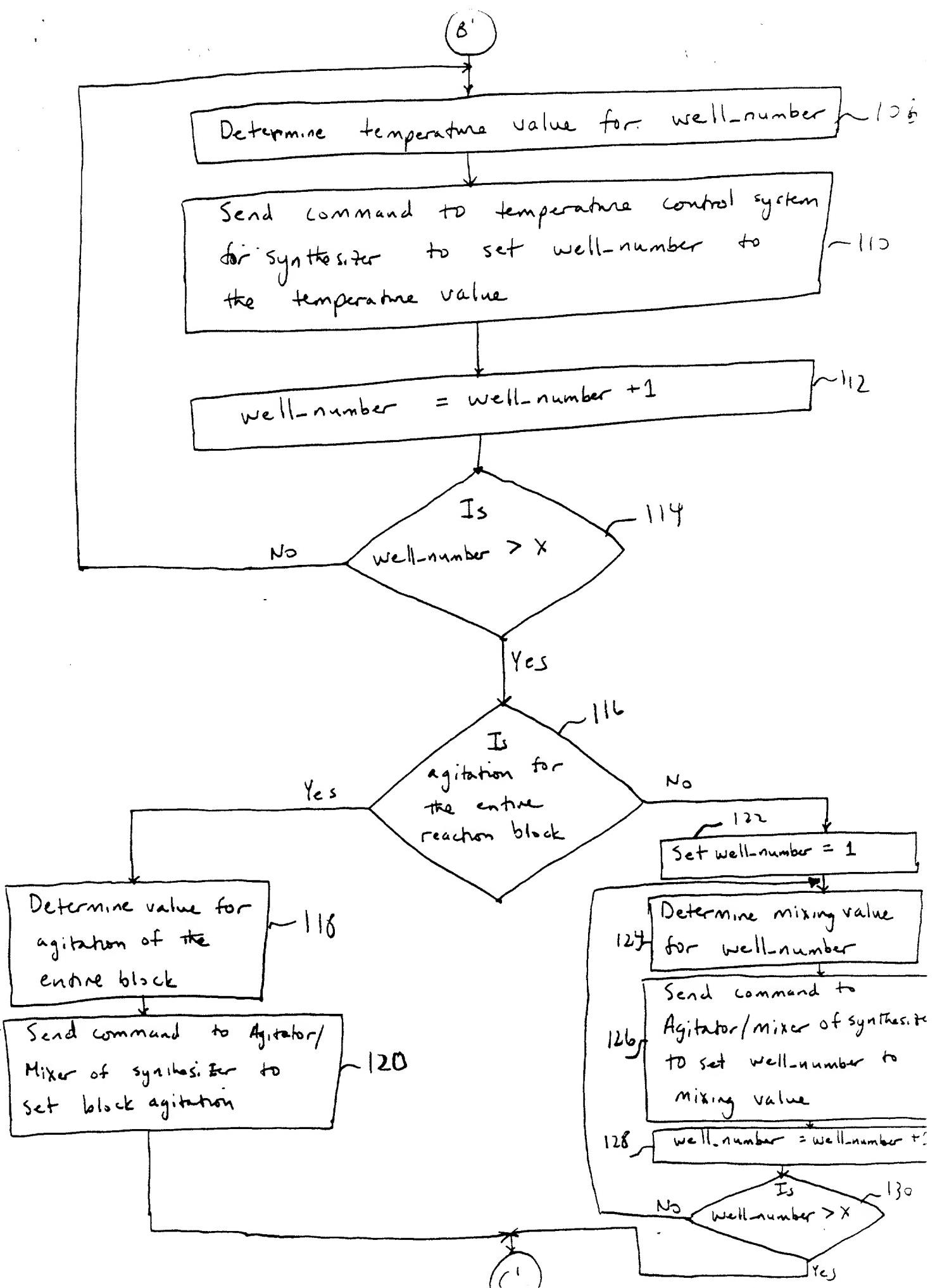


FIG. 5







(C)

Determine reaction times for each of the wells

~132

Order wells in an array from lowest to highest reaction time and set pointer to first item in array

~134

Determine the reaction time for well which is at the pointer

~136

Check clock and determine total reaction time based on current clock value subtracted from start-value clock time

~138

Is  
total\_time > reaction time  
for well at pointer

~140

No Stop reaction ~142

Yes

Set pointer to next item in array ~144

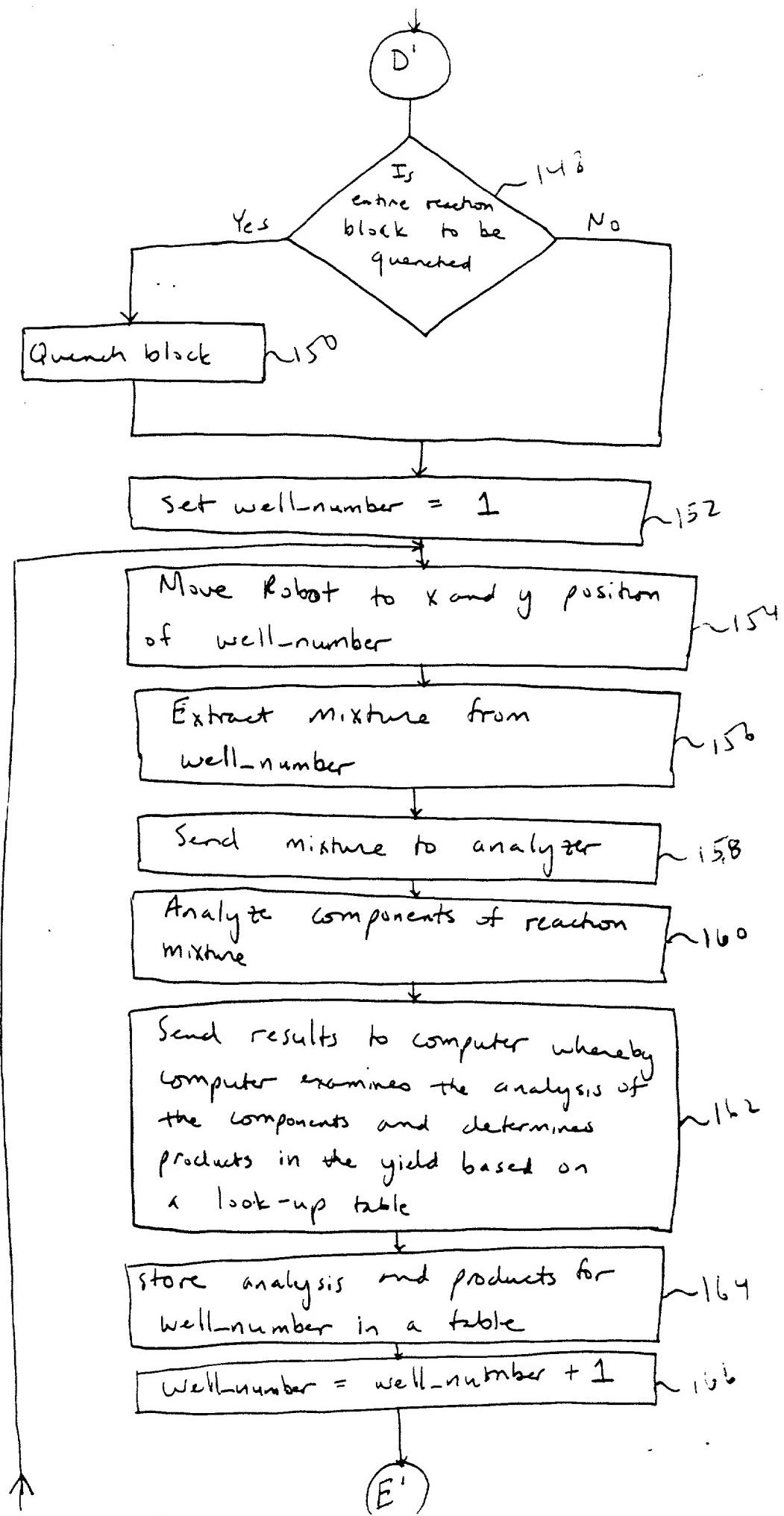
Is  
pointer outside  
of array

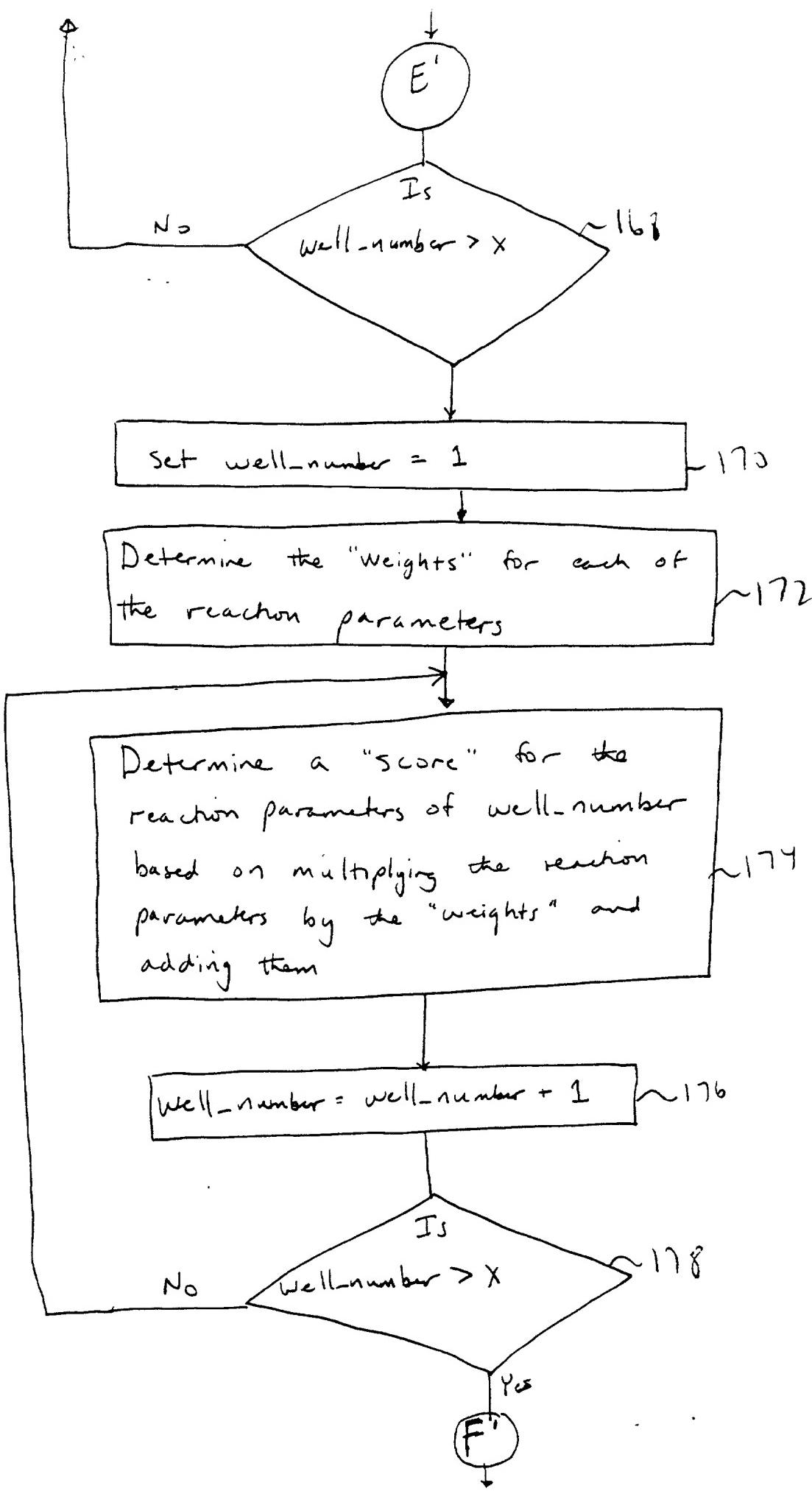
~146

No

Yes

(D)







Arrange the entries in the table based on the "Score" of the reaction parameters

~180

Display the entries in the table and the "Score" to the operator

~182

Analyze the reaction parameters of the well with the highest "score"

~184

Determine the suggested parameters for the next set of experiments by determining the bounds for the next experiment (e.g. if the temperature for the well with the highest score is  $30^{\circ}\text{C}$ , the bounds for the temperature parameters for the next experiment are  $25^{\circ}\text{C}$  to  $35^{\circ}\text{C}$ )

~186

Display suggested parameters for the reaction parameters in the next experiment

~188

A circular node at the bottom of the flowchart containing the word 'END'.